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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,825	08/06/2003	Akira Nagashima	03500 016040.1	7347
5514	7590 01/13/2005		EXAMINER	
	CK CELLA HARPER &	SHAH, MANISH S		
• •	CKEFELLER PLAZA YORK, NY 10112		ART UNIT	PAPER NUMBER
			2853	
		DATE MAILED: 01/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A -				
	Application No.	Applicant(s)				
	10/634,825	NAGASHIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Manish S. Shah	2853				
The MAILING DATE of this communication a	appears on the cover sheet w	th the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of third od will apply and will expire SIX (6) MON tute, cause the application to become AE	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22	Responsive to communication(s) filed on 22 November 2004.					
2a) ☐ This action is FINAL . 2b) ☐ T	☐ This action is FINAL . 2b)☐ This action is non-final.					
•	- - · · ·					
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D	0. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1,4-18,20-22 and 25-53 is/are pend 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,4-18,20-22 and 25-53 is/are reject 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the	nccepted or b) objected to he drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreit a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a light section.	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	application No received in this National Stage				
: Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/NPaper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152) 				

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claim 1, 38 & 50 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,676,254 B2 in view of Omata et al. (# US 5953031).

Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter claimed in the instant application is disclosed in the US Patent and is covered by the US Patent, since the US patent and the application are claiming common subject matter, as follows as shown in Table: 1 below.

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TABLE: 1

US 6676254 B2 CLAIMS

- 1. A recording method comprising a step of providing an ink from a recording head to a recording medium through a gap provided between the recording head and the recording medium, the ink being supplied to the recording head from an ink tank comprising an ink contact member and the ink contacting the ink contact member, wherein the ink comprises
 - (i) a fluorescent coloring material;
 - (ii) a nonionic surfactant;
- (iii) a compound which is not compatible with (ii) and; which has a solubility parameter of not less than 15; and
- (iv) a liquid medium for dissolving or dispersing (i), (ii) and (iii), and

wherein the ink contact member comprises at least one compound selected from the group consisting of polyacetate and polyolefin.

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- 1. A recording method comprising a step of providing an ink from a recording head to a recording medium through a gap provided between the recording head and the recording medium, the ink being supplied to the recording head from an ink tank comprising an ink contact member and the ink contacting the ink contact member, wherein the ink comprises
 - (i) a fluorescent coloring material;
 - (ii) a nonionic surfactant;
- (iii) a compound which is not compatible with (ii); and
- (iv) a liquid medium for dissolving or dispersing (i), (ii) and (iii), and

wherein the ink contact member is an ink holding member made of polypropylene.

- 38. An ink cartridge comprising an aqueous ink and ink contact member, wherein the ink comprises
 - (i) a fluorescent coloring material;
 - (ii) a nonionic surfactant;
- (iii) a compound which is not compatible with (ii); and
- (iv) a liquid medium for dissolving or dispersing (i), (ii) and (iii), and

wherein the ink contact member is an inkholding member made of polypropylene.

- 50. An ink tank comprising an aqueous ink, an ink container and ink holding member, wherein the ink comprises
 - (i) a fluorescent coloring material;
 - (ii) a nonionic surfactant;
 - (iii) a compound which is not compatible with (ii);
- (iv) a liquid medium for dissolving or dispersing (i), (ii) and (iii), and
- wherein the ink contact member is an inkholding member made of polypropylene.

With respect to claim 1, the pending application claiming the recording method steps, which is almost same as of US patent.

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However, the pending application claimed a compound, which is not compatible with (ii), which is broader limitation than the US Patent, so this limitation still can read by the US Patent claim.

It was obvious to one of ordinary skill in the art at the time of invention was made to use the ink composition of the US Patent in to the recording method of pending application to get the printed image.

With respect to claims 1, 38 & 50 the pending application claiming (1) the ink cartridge including the ink composition, (2) The ink holding member includes polypropylene.

Omata et al. teaches that to store the ink, recording apparatus need ink cartridge (ink holding member), wherein ink-holding member is made of polypropylene (column: 6, line: 50-62).

It was obvious to one of ordinary skill in the art at the time of invention was made to use the ink composition taught in the US Patent in to the ink cartridge of Omata et al. to get the low coast ink cartridge, and because of the high transparency of the polypropylene, the users to visually check an ink remaining amount for convenience of use (column: 6, line: 50-62).

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 4-18, 20-22, 25-37 & 51 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagashima et al. (# US 6676734).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Nagashima et al. discloses a recording method comprising a step of providing an ink from a recording head to a recording medium through a gap provided between the recording head and the recording medium, the ink being supplied to the recording head from an ink tank comprising an ink contact member and the ink contacting the ink contact member (column: 38, line: 49-68; column: 39, line: 1-36), wherein the ink comprises (i) a fluorescent coloring material, which is an azo dye (column: 11, line: 1-25) and the ink contains ammonium ions and alkali metal ions, and at least one selected

from urea and derivatives thereof, which includes alkyl derivatives of urea and ethylene oxide adducts of urea and propylene oxide adducts of urea; and the surface tension of the ink is not more than 40mN/m (dyne/cm) (column: 26, line: 10-25) and pH is not more than 8; (ii) a nonionic surfactant; (iii) a compound which is not compatible with (ii) and has the solubility parameter not less than 15 (column: 8, line: 25-35), which is selected from ethylene oxide, sugar alcohol (column: 8, line: 40-50); and (iv) a liquid medium for dissolving or dispersing (i), (ii) and (iii) (see Abstract; column: 2, line: 50-65), and wherein the ink contact member in the ink holding member made of polypropylene (polymer formed by condensation or polymerization reaction of organic compounds) (column: 29, line: 20-30). They also disclose that the contact member is an inkcontainer with an ink holding member (figure: 1-3). They also discloses the step includes the sub-steps of: ejecting ink droplets from an orifice in response to recording signals with ink-jet method, and conducting recording on the recording medium (column: 38, line: 49-68), which is performed by applying thermal energy to the ink (column: 27, line: 30-35). They also disclose that the fluorescent coloring material is water-soluble or hydrophilic (column: 11, line: 1-7), wherein the concentration of the fluorescent coloring material in the ink is equal to or exceeds the concentration thereof exhibiting the maximum fluorescence intensity, and wherein the concentration of the fluorescent coloring material in the ink is not more than 1.5% by mass based on total mass of the ink (column: 14, line: 55-65), wherein the fluorescent coloring material is a fluorescent dye (column: 11, line: 5-23). They also discloses that the nonionic surfactant is a liquid at room temperature and has an HLB of not more than 13 (column: 9, line: 11-20) and

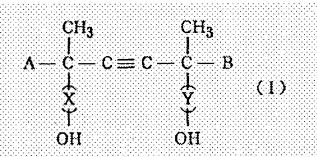
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the concentration of the nonionic surfactant in the ink is a value causing no phase separation in the ink and the concentration of the nonionic surfactant in the ink is that does not cause phase separation of the nonionic surfactant even when the ink does not contain the fluorescent coloring material, wherein the concentration of the nonionic surfactant is contained in an amount not more than 1.0% by mass based on total weight of the ink (column: 9, line: 25-50). They also disclose that the nonionic surfactant has a structure represented by the following formula (column: 9, line: 50-65). They also disclose that the fluorescent coloring material is C.I. Acid Red 52, and the content of the coloring material is at most 0.4% by weight based on total weight of ink (see Table: 1-1).

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(wherein A and B are independently CnH2n+1 (n being an integer of 1 to 10), and X and X are independently a ring-opened ethylene oxide unit and/or a ring-opened propylene oxide unit.)

4. Claims 38-50 & 52-53 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagashima et al. (# US 6676734).

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The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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Nagashima et al. discloses an inkiet recording apparatus including an ink cartridge including an aqueous ink and ink contact member (figure: 4, 13 & 28; column: 38, line: 49-68; column: 39, line: 1-36), wherein the ink includes (i) a fluorescent coloring material, which is an azo dye (column: 11, line: 1-25) (ii) a nonionic surfactant; (iii) a compound which is not compatible with (ii) and has the solubility parameter not less than 15 (column: 8, line: 25-35), which is selected from ethylene oxide, sugar alcohol (column: 8, line: 40-50); and (iv) a liquid medium for dissolving or dispersing (i), (ii) and (iii) (see Abstract; column: 2, line: 50-65), and wherein the ink contact member in holding member made of polypropylene (polymer formed by condensation or polymerization reaction of organic compounds) (column: 29, line: 20-30). They also disclose that the contact member is an ink-container with an ink-holding member (figure: 1-3), wherein ink-holding member is porous, contact with the ink container, with multi layer structure (figure: 5-6, 13). They also disclose that the fluorescent coloring material is C.I. Acid Red 52, and the content of the coloring material is at most 0.4% by weight based on total weight of ink (see Table: 1-1).

Response to Arguments

5. Applicant's arguments filed 11/22/2004 have been fully considered but they are not persuasive. Applicant argued that the Nagashima et al. reference did not suggest or teach that the ink holding member comprises polypropylene, which is not persuasive. Nagashima et al. teaches that the ink holding member made of the polymer formed by condensation or polymerization reaction of organic compounds, and the polypropylene is also a polymer, which is form by the polymerization reaction of the organic compound. So Nagashima et al. teaches the ink holding member made of polypropylene. However the new reference Omata et al. also teaches that the inkholding member is made of polypropylene (column: 6, line: 50-62).

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manish S. Shah Primary Examiner Art Unit 2853

MSS 1/7/05